



RECEIVED

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SEQUENCE LISTING

TECH CENTER 1600/2900

<110> Walter, Michael A.
Jordan, Tim
Raymond, Vincent

<120> NOVEL MUTATIONS IN THE FREAC3 GENE FOR
DIAGNOSIS AND PROGNOSIS OF GLAUCOMA AND ANTERIOR SEGMENT
DYSGENESIS

<130> 07540/020003

<140> US 09/292,862

<141> 1999-04-16

<150> 60/084,784

<151> 1998-05-08

<150> 60/082,206

<151> 1998-04-17

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<212> DNA

<213> Homo sapiens

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 aaaagctaaa ggaacccatc aaggcaaaaat cgaaactaaa aaaaaaaaat ccaattaaaa 1920
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 <212> PRT
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 35 40 45
 His Pro Ala His Ala Glu Gln Tyr Pro Gly Gly Met Ala Arg Ala Tyr
 50 55 60
 Gly Pro Tyr Thr Pro Gln Pro Gln Pro Lys Asp Met Val Lys Pro Pro
 65 70 75 80
 Tyr Ser Tyr Ile Ala Leu Ile Thr Met Ala Ile Gln Asn Ala Pro Asp
 85 90 95
 Lys Lys Ile Thr Leu Asn Gly Ile Tyr Gln Phe Ile Met Asp Arg Phe
 100 105 110
 Pro Phe Tyr Arg Asp Asn Lys Gln Gly Trp Gln Asn Ser Ile Arg His
 115 120 125
 Asn Leu Ser Leu Asn Glu Cys Phe Val Lys Val Pro Arg Asp Asp Lys
 130 135 140
 Lys Pro Gly Lys Gly Ser Tyr Trp Thr Leu Asp Pro Asp Ser Tyr Asn
 145 150 155 160
 Met Phe Glu Asn Gly Ser Phe Leu Arg Arg Arg Arg Arg Phe Lys Lys
 165 170 175
 Lys Asp Ala Leu Lys Asp Lys Glu Glu Lys Asp Arg Leu His Leu Lys
 180 185 190
 Glu Pro Pro Pro Pro Gly Ala Ser Pro Arg Pro Ala Pro Pro Glu Gln
 195 200 205
 Ala Asp Gly Asn Ala Pro Gly Pro Gln Pro Pro Pro Val Arg Ile Gln
 210 215 220
 Asp Ile Lys Thr Glu Asn Gly Thr Cys Pro Ser Pro Pro Gln Pro Leu
 225 230 235 240
 Ser Pro Ala Ala Ala Leu Gly Ser Gly Ser Ala Ala Ala Val Pro Lys
 245 250 255
 Ile Glu Ser Pro Asp Ser Ser Ser Ser Ser Leu Ser Ser Gly Ser Ser
 260 265 270
 Pro Pro Gly Ser Leu Pro Ser Ala Arg Pro Leu Ser Leu Asp Gly Ala
 275 280 285
 Asp Ser Ala Pro Pro Pro Pro Ala Pro Ser Ala Pro Pro Pro His His
 290 295 300
 Ser Gln Gly Phe Ser Val Asp Asn Ile Met Thr Ser Leu Arg Gly Ser
 305 310 315 320
 Pro Gln Ser Ala Ala Ala Glu Leu Ser Ser Gly Leu Leu Ala Ser Ala
 325 330 335
 Ala Ala Ser Ser Arg Ala Gly Ile Ala Pro Pro Leu Ala Leu Gly Ala
 340 345 350

Tyr Ser Pro Gly Gln Ser Ser Leu Tyr Ser Ser Pro Cys Ser Gln Thr
 355 360 365
 Ser Ser Ala Gly Ser Ser Gly Gly Gly Gly Gly Gly Ala Gly Ala Ala
 370 375 380
 Gly Gly Ala Gly Gly Ala Gly Thr Tyr His Cys Asn Leu Gln Ala Met
 385 390 395 400
 Ser Leu Tyr Ala Ala Gly Glu Arg Gly Gly His Leu Gln Gly Ala Pro
 405 410 415
 Gly Gly Ala Gly Gly Ser Ala Val Asp Asp Pro Leu Pro Asp Tyr Ser
 420 425 430
 Leu Pro Pro Val Thr Ser Ser Ser Ser Ser Ser Leu Ser His Gly Gly
 435 440 445
 Gly Gly Gly Gly Gly Gly Gly Gly Gln Glu Ala Gly His His Pro Ala
 450 455 460
 Ala His Gln Gly Arg Leu Thr Ser Trp Tyr Leu Asn Gln Ala Gly Gly
 465 470 475 480
 Asp Leu Gly His Leu Ala Ser Ala Ala Ala Ala Ala Ala Ala Gly
 485 490 495
 Tyr Pro Gly Gln Gln Gln Asn Phe His Ser Val Arg Glu Met Phe Glu
 500 505 510
 Ser Gln Arg Ile Gly Leu Asn Asn Ser Pro Val Asn Gly Asn Ser Ser
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 Ala Phe Val Tyr Asp Cys Ser Lys Phe
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 <212> DNA
 <213> Homo sapiens

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 <211> 12
 <212> DNA
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<400> 4
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<210> 5
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 5
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<210> 6
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<400> 6

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<210> 7
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<400> 7
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<400> 9
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